| Ir | Ide | ex: | of: | CI | aiı | ns |  |
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| Appli | ication | /Control | No. |
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10/519,199

Examiner

Reexamination

YABE ET AL.

Applicant(s)/Patent under

Art Unit

Ashok B. Patel

2154

| √ | Rejected |
|---|----------|
| _ | Allowed  |

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

Appeal 0 Objected

|          |          | <u> </u>   | _            |  |                |                   | ,  | ,            |                |          |   |  |           |                 |          |   |          | '  |  |            |              |              |      |
|----------|----------|--|--------------|--|----------------|-------------------|--|--------------|----------------|----------|---|--|-----------|-----------------|----------|---|----------|--|--|------------|--------------|--------------|------|
| Cla      | aim      |  |              |  | [              | Date              | e  |              |                |          |   | Cla  | im        |                 |          |   | [        | Date   | <u> </u>   |            | _            |              |      |
| Final    | Original | 10/24/07   |              |  |                |                   |  |              |                |          |   | Final  | Original  |                 |          |   |          |  |  |            |              |              |      |
|          | 1        | ✓  |              |  |                |                   |  |              |                |          |   |  | 51        |                 |          |   |          |  |  |            |              |              |      |
|          | 2        | ✓  |              |  |                |                   |  |              |                |          |   |  | 52        |                 |          |   |          |  |  |            |              |              | L    |
|          | 3        | ✓  |              |  |                |                   | _  |              |                |          |   |  | 53        |                 | _        |   |          |  |  |            |              |              | L    |
|          | 4        | ✓  |              |  | _              |                   |  |              |                |          |   |  | 54        |                 |          |   |          | L_   |  |            |              |              | l L  |
|          | 5        | 1  |              |  | _              |                   |  |              | _              |          |   |  | 55        | <b>-</b>        | _        |   |          |  |  | _          |              |              |      |
|          | 6        | V  |              | _  | <u> </u>       | <u> </u>          |  |              |                | _        |   |  | 56        |                 |          |   |          |  | -  |            |              |              |      |
| -        | 7        | Ý  |              |  |                | -                 | -  | <u> </u>     | -              |          |   |  | 57<br>58  |                 | -        |   |          | <del> </del>                                     | <u> </u>   |            |              |              | -    |
|          | 8        | 1  | _            | ⊢  | ⊢              |                   | <del> </del>                                     |              |                | ┝        |   |  | 59        | -               | -        |   |          | ⊢  | ┝  | _          |              |              | -    |
|          | 10       | <b>∨</b>   | _            | -  | -              | ⊢                 | ⊢  | ⊢            | <u> </u>       | -        |   |  | 60        | $\vdash$        | -        |   | -        |  |  | -          | -            | _            | -    |
| $\vdash$ | 11       | 7  |              | $\vdash$   | $\vdash$       | $\vdash$          | ┢  | -            | -              |          | ł |  | 61        | $\vdash$        | -        |   | -        |  | -  | _          |              | -            | -    |
| <u> </u> | 12       | Ť  | _            | -  | $\vdash$       | H                 |  |              | -              |          |   |  | 62        |                 |          |   |          | <del>                                     </del> | _  |            |              |              |      |
| <b>—</b> | 13       |  | _            |  |                |                   | $\vdash$   |              | -              |          |   |  | 63        | $\Box$          | $\neg$   |   |          | _  |  |            |              |              | i T  |
|          | 14       |  |              |  | Г              | Г                 | $\vdash$   | $\vdash$     | Г              |          | 1 |  | 64        |                 |          |   | _        |  |  |            |              |              |      |
|          | 15       |  |              |  |                |                   |  |              |                |          |   |  | 65        |                 |          |   |          |  |  |            |              |              | ΙC   |
|          | 16       |  |              |  |                |                   |  |              |                |          |   |  | 66        |                 |          |   |          |  |  |            |              |              |      |
|          | 17       |  |              | <u> </u>   | L.             | _                 | <u> </u>   | L            | L              | _        |   |  | 67        |                 | _        |   | _        | _  | L  |            | <u> </u>     |              | L    |
|          | 18       |  |              | 匚  | <u> </u>       | _                 | <u> </u>   | L            | L              | <u> </u> |   |  | 68        |                 | _        |   |          |  |  | _          | $oxed{oxed}$ |              | l  - |
|          | 19       |  |              | _  | _              | <u> </u>          | ļ  | _            | <b> </b> _     | _        | l |  | 69        |                 | _        | _ |          |  | _  | <u> </u>   |              |              | -    |
| <u></u>  | 20       | <u> </u>   |              | <u> </u>   | <u> </u>       | <u> </u>          | <u> </u>   | _            | _              |          | · |  | 70        | $\vdash$        | _        |   | -        |  | _  | <u> </u> _ | _            |              | -    |
| <u></u>  | 21       | <u> </u>   |              | <u> </u>   | <u> </u>       | <u> </u>          | ├  | <u> </u>     | <u> </u>       |          | { |  | 71        |                 |          |   | -        |  | _  | $\vdash$   | _            |              | -    |
| <u></u>  | 22       | <u> </u>   |              |  | <u> </u>       | -                 | -  | ⊢            | _              | -        | ł |  | 72<br>73  | ╌               |          | _ |          |  |  | ├          | -            |              | i    |
| -        | 23<br>24 |  |              | -  |                | ⊨                 | <del> </del>                                     | ┢            | H              |          | - |  | 74        | $\vdash$        | ᅱ        |   | -        |  | H  |            | $\vdash$     |              | -    |
| <b>—</b> | 25       |  | _            | ┢  |                | <del> </del>      | <del> </del>                                     | -            | $\vdash$       |          | 1 |  | 75        | $\vdash$        | $\dashv$ |   | -        | -  | -  | ,          |              | $\vdash$     | -    |
| -        | 26       | ╁  | _            | ┢  | ├─             | <del> </del>      | ╁  | H            |                | ļ        |   |  | 76        | 1               | $\dashv$ |   | _        |  | <del> </del>                                     |            |              |              | -    |
| -        | 27       | 1  | _            | ┢  | $\vdash$       | ╁                 | ╁  |              | $\vdash$       |          | 1 |  | 77        | 1-1             |          |   |          |  |  | $\vdash$   |              |              |      |
|          | 28       | Ħ  |              | $\vdash$   | Н              | 1                 | <u> </u>   |              |                |          | 1 |  | 78        |                 |          | _ | _        |  | <del>                                     </del> | _          |              |              | i    |
|          | 29       |  |              | $\vdash$   | -              |                   | Π  | Г            |                |          | 1 |  | 79        |                 |          |   |          |  |  |            |              |              |      |
|          | 30       |  |              |  |                |                   |  |              |                |          |   |  | 80        |                 |          |   |          |  |  |            |              |              |      |
|          | 31       |  |              |  |                |                   |  |              |                |          |   |  | 81        |                 |          |   |          | L_   |  |            |              |              |      |
|          | 32       | _  | L            | <u> </u>   | <u> </u>       | <u> </u>          | <u> </u>   | _            | _              | <u> </u> |   |  | 82        | $\sqcup$        | _        |   |          | <u> </u>   | <u> </u>   |            |              |              | -    |
| ·        | 33       | _  | _            | <u>_</u>   | <u> </u>       | <u> </u>          |  |              | _              | <u> </u> |   |  | 83        | -               |          |   | _        | <u> </u>   | <u> </u>   |            | <u> </u>     |              | -    |
| ļ        | 34       | $\vdash$   | <u> </u>     | -  | <u> </u>       | -                 | -  | <del> </del> | <del> </del> - |          | - | <u> </u>   | 84        | $\vdash \vdash$ |          |   |          | <del> </del>                                     | -  |            | -            |              | -    |
|          | 35       | $\vdash$   | $\vdash$     | $\vdash$   | ├—             | -                 | ├-   | <del> </del> | <del> </del>   | -        | ł | <u></u> -  | 85<br>86  | $\vdash \vdash$ | -        |   | $\vdash$ | ├  | -  | -          |              |              | -    |
| <u> </u> | 36<br>37 | $\vdash$   | $\vdash$     | ├  | ├              | $\vdash$          | $\vdash$   | <del> </del> | $\vdash$       | ⊢        | 1 |  | 87        | $\dashv$        | -        |   |          |  | -  |            | -            | <del> </del> | H    |
| <b>—</b> | 38       | <del> </del>                                     | <del> </del> | $\vdash$   | -              | $\vdash$          | ├-   |              | $\vdash$       | $\vdash$ | 1 | <del>                                     </del> | 88        | $\vdash \vdash$ |          | _ | $\vdash$ | $\vdash$   | -  |            |              | <del> </del> | -    |
|          | 39       | $\vdash$   | -            | -  | 6              | <del> .    </del> | $\vdash$   |              | $\vdash$       | -        | 1 | <u> </u>   | 89        | $\vdash$        | -        |   |          | <del> </del>                                     | <u> </u>   |            | -            | ┢            | -    |
|          | 40       | <del>                                     </del> | $\vdash$     | Н  | ۲              | $\vdash$          | <del>                                     </del> |              | $\vdash$       | $\vdash$ | 1 |  | 90        | $\vdash$        | $\dashv$ |   | $\vdash$ |  | $\vdash$   |            |              |              |      |
|          | 41       | 1  | _            | <del>                                     </del> | T              | 1                 | -  | $\vdash$     | 1              |          | 1 | $\vdash$   | 91        | $\sqcap$        | _        |   | Ι-       | Г  | Т  |            | $\vdash$     | Г            |      |
|          | 42       | Τ  | Γ            | Т  |                |                   | 1  |              |                |          | 1 |  | 92        |                 |          |   |          |  |  |            |              |              |      |
|          | 43       |  |              |  |                |                   |  |              |                |          | ] |  | 93        |                 |          |   |          |  |  |            |              |              |      |
|          | 44       |  |              |  |                |                   |  |              |                |          |   |  | 94        |                 |          |   |          |  |  |            |              | 匚            | 1 [  |
|          | 45       |  |              |  | <u> </u>       | $\Box$            |  | L            | Ľ              |          |   | <u> </u>   | 95        | Ц               |          |   | L        | <u> </u>   | _  |            |              | <u> </u>     |      |
|          | 46       | <u></u>  | <u>L</u>     | L  | ļ              | <u> </u>          | <u> </u>   | <u> </u>     |                | _        | 1 | <u></u>  | 96        | $\sqcup$        | _        |   | _        | _  | <u> </u>   | ļ          | <u> </u>     | <u> </u>     | -    |
|          | 47       |  | <u> </u>     | <b> </b>   | Ŀ              | ├-                |  | <u> </u>     | L              | <u> </u> | - | <b> </b>   | 97        | $\sqcup$        | _        |   | _        | $\vdash$   | <u> </u>   | -          | <u> </u>     | <u> </u> -   | -    |
|          | 48       | ├  | _            | ⊢  | <del> </del> — | -                 | ┼  | ⊢            | $\vdash$       | -        | - |  | 98        |                 |          | - | <u> </u> | -  | -  | -          | -            | <u> </u>     | -    |
|          | 49<br>50 | ├-   | $\vdash$     | $\vdash$   | $\vdash$       | -                 |  | ├            | $\vdash$       | $\vdash$ | 1 | ├—   | 99<br>100 | ⊢┼              | -        |   | $\vdash$ | ┝  | $\vdash$   | <u> </u>   | ┢            | <del> </del> | -    |
| L        | 1 30     |  | L            |  | 1              |                   |  |              | Ц_             | L        | j | L  | 100       | ш               |          |   | <u> </u> |  | Ц_   | Щ          | <u> </u>     | L            | ı L  |

| Cla      | im             | _            | _  | _  |          | ate      | _            |  | _              | _        |
|----------|----------------|--------------|--|--|----------|----------|--------------|--|----------------|----------|
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| Final    | Original       |              |  |  | i        |          |              |  |                |          |
| ΙŒ       | Ö              |              |  |  |          |          |              |  |                |          |
|          | !!             |              |  |  | _        |          |              |  |                |          |
| L        | 51             |              |  |  |          |          |              |  |                |          |
|          | 52             |              |  |  |          |          |              |  |                |          |
|          | 53             |              |  |  |          |          |              |  |                |          |
|          | 54             |              |  |  |          |          |              |  |                |          |
|          | 55             |              |  |  |          |          |              |  |                |          |
|          | 56             |              |  |  |          |          |              |  |                |          |
|          | 57             |              |  |  |          |          |              |  |                |          |
| <b></b>  | 58             |              | _  |  | _        | _        | -            |  |                | _        |
| -        | 59             |              |  | _  |          |          | -            | _  |                |          |
|          | 60             | _            |  |  | -        |          |              | _  |                | -        |
| $\vdash$ | 61             | -            | -  |  | -        |          | _            | _  |                | -        |
| -        | 62             | -            | -  | -  | -        |          |              |  | -              | _        |
| <u> </u> | 61<br>62<br>63 | _            |  | -  |          |          |              |  |                | _        |
|          | 64             | _            | $\vdash$   | -  |          |          |              |  | $\vdash$       | -        |
|          | 65             | _            |  |  |          |          |              | —  | $\vdash$       | _        |
| -        |                | _            |  |  | H        |          |              |  |                |          |
| -        | 66             | -            |  | <del> </del>                                     | <u> </u> |          | H            | _  | $\vdash$       |          |
|          | 67             |              | _  | $\vdash$   | $\vdash$ |          | _            |  |                |          |
|          | 68             |              | _  | <u> </u>   | _        |          |              | _  |                | _        |
|          | 69             |              |  |  |          |          |              | _  | _              | _        |
|          | 70             |              | <u> </u>   | _  |          |          |              |  |                | _        |
|          | 71             |              |  | L.,  | L        |          |              | L  |                |          |
|          | 72             |              |  |  |          |          |              |  |                |          |
|          | 73             |              |  |  |          |          |              |  |                |          |
|          | 74             |              |  |  |          |          |              |  |                |          |
|          | 75             |              |  |  |          |          |              | 1  |                |          |
|          | 76             |              |  |  |          |          |              |  |                |          |
|          | 77             |              |  |  |          |          | П            |  |                |          |
|          | 78             |              |  | Г  |          |          |              |  |                |          |
|          | 78<br>79       |              |  |  |          |          |              |  |                |          |
|          | 80             |              | _  |  |          |          |              | _  |                |          |
|          | 81             | <del></del>  |  |  |          |          |              | _  |                |          |
|          | 82             |              | <b> </b>   | ┢  |          |          | $\vdash$     | -  | <u> </u>       | _        |
| -        | 83             | <u> </u>     | <del>                                     </del> | <del> </del>                                     |          |          | <del> </del> | -  | $\vdash$       |          |
|          | 84             |              | -  |  | $\vdash$ | $\vdash$ | Н            | <del>                                     </del> |                |          |
| <u> </u> | 85             |              | -  | <del>                                     </del> | $\vdash$ | _        | _            | -  |                | -        |
|          | 86             | $\vdash$     | $\vdash$   | -  | $\vdash$ |          | -            | Η-   |                | -        |
|          | 87             | $\vdash$     | $\vdash$   | -  |          |          | -            |  | -              | $\vdash$ |
| -        | 88             |              | -  | <del> </del>                                     | $\vdash$ | $\vdash$ | -            |  |                | -        |
|          |                | $\vdash$     | -  |  |          |          |              |  | -              |          |
| -        | 89<br>90       | -            |  | <del>                                     </del> | $\vdash$ | $\vdash$ | $\vdash$     | <del> </del>                                     | -              |          |
| -        | 90             | <u> </u>     |  |  | -        | -        | $\vdash$     | $\vdash$   | $\vdash$       | $\vdash$ |
| <b>—</b> | 91             | <del> </del> |  | $\vdash$   | H        | $\vdash$ | $\vdash$     | <del> </del>                                     | -              |          |
| -        | 92             | $\vdash$     | $\vdash$   |  | -        |          | <u> </u>     |  | -              | ├—       |
| <u> </u> | 93             | <u> </u>     | ├-   | <del> </del>                                     |          |          |              |  | <del> </del> — | <u> </u> |
| <u> </u> | 94             | <u> </u>     | <u> </u>   | ــ   | <u> </u> | <u> </u> | <b> </b>     |  | <u> </u>       | <u> </u> |
| <u> </u> | 95             | <u> </u>     | <u> </u>   | <u> </u>   | <u> </u> | <u> </u> | <u> </u>     | ļ  |                | _        |
| <u> </u> | 96             | <u> </u>     | <u> </u>   | <u> </u>   | <u> </u> |          | <u> </u>     |  |                | _        |
| <u> </u> | 97             | _            | _  | $ldsymbol{f eta}$                                | _        |          | L            |  | <u></u>        | _        |
| <u> </u> | 98             | <u> </u>     | _  |  | <u> </u> | _        |              |  | <u> </u>       | <u>L</u> |
| <u> </u> | 99             | <u> </u>     | <u>_</u>   | <u> </u>   | L        |          | ᆫ            | _  | <u> </u>       | _        |
| 1        | 100            | 1 '          |  | 1  |          | ı        | ı            | i  | ı              |          |

| Cla         | aim   |                    | -  | -  |                   | ate                                 | •            |              |               | $\neg$   |
|-------------|---|--------------------|--|--|-------------------|-------------------------------------|--------------|--------------|---------------|----------|
|             |   |                    |  |  |                   |                                     |              |              |               | ಠ        |
| Final       | Original  |                    |  |  |                   |                                     |              |              |               |          |
|             | 101   |                    |  |  |                   |                                     |              |              |               |          |
|             | 102<br>103<br>104   |                    |  |  |                   |                                     |              |              |               |          |
|             | 103   |                    |  |  | _                 |                                     |              |              |               |          |
|             | 104   |                    |  |  |                   |                                     |              |              | _             | _        |
|             | 105<br>106  |                    |  |  |                   |                                     |              |              |               |          |
|             | 107   |                    |  |  |                   |                                     | _            | $\vdash$     | -             |          |
|             | 108   | -                  |  | _  |                   |                                     |              |              |               | -        |
|             | 108<br>109  |                    |  |  |                   |                                     |              |              | -             |          |
|             | 110   |                    |  |  |                   |                                     |              |              | $\vdash$      |          |
|             | 111   |                    |  |  |                   |                                     |              |              | _             |          |
|             | 110<br>111<br>112   |                    |  |  |                   |                                     |              |              |               |          |
|             | 113   |                    |  |  |                   |                                     |              |              |               |          |
|             | 113<br>114<br>115   | _                  |  |  |                   |                                     |              |              | <u></u> -     |          |
|             | 115   | _                  |  |  |                   |                                     |              |              |               |          |
|             | 116<br>117<br>118   |                    | _  | <del> </del> —                                   |                   |                                     |              |              |               |          |
|             | 118   | $\vdash$           |  | -  |                   |                                     | -            | <u> </u>     | -             | $\dashv$ |
|             | 119   | -                  |  | -  | -                 | Ė                                   |              | $\vdash$     | $\vdash$      | -        |
|             | 120   |                    |  | _  |                   |                                     | _            | $\vdash$     | $\vdash$      | $\Box$   |
|             | 121   |                    |  |  |                   |                                     |              | $\vdash$     |               |          |
|             | 122   |                    |  | -  |                   | _                                   |              |              |               |          |
|             | 119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131 |                    |  |  |                   |                                     |              |              |               |          |
|             | 124   |                    |  | _  |                   |                                     |              |              |               |          |
|             | 125   | _                  |  | _  | <u> </u>          |                                     | _            |              | _             |          |
|             | 126   | Н                  | <u> </u>   | _  | _                 |                                     |              |              | <del> </del>  | Н        |
|             | 128   |                    |  | <u> </u>   |                   |                                     | <u> </u>     |              |               |          |
|             | 129   |                    | ┝  |  | -                 | -                                   | _            | $\vdash$     | ┢             | $\vdash$ |
|             | 130   |                    | -  | <del>                                     </del> |                   |                                     | _            | -            | <u> </u>      |          |
|             | 131   | $\Box$             | _  | $\vdash$   |                   |                                     |              |              |               |          |
|             | 132   |                    |  |  |                   |                                     |              |              |               |          |
|             | 133<br>134  |                    |  |  |                   |                                     |              |              |               |          |
| ļ           | 134   |                    |  |  | _                 | _                                   |              | <u> </u>     | <u> </u>      |          |
|             | 135   |                    |  |  | -                 | <u> </u>                            | _            | <u> </u>     |               |          |
| <del></del> | 136<br>137<br>138<br>139  |                    |  |  | <del> </del>      | $\vdash$                            | <del> </del> |              | -             |          |
| <u> </u>    | 138   |                    |  |  |                   | <del> </del>                        | $\vdash$     | $\vdash$     | $\vdash$      | $\vdash$ |
| <u> </u>    | 139   | <del>  ,    </del> |  |  | -                 | -                                   | $\vdash$     | $\vdash$     | $\vdash$      |          |
|             | 140   | $\vdash$           | <del>                                     </del> | $\vdash$   | _                 |                                     |              | _            | -             | $\vdash$ |
|             | 141   |                    | ┢  | $\vdash$   | Г                 | Г                                   | Т            | Γ            | Г             | П        |
|             | 142   |                    |  |  |                   |                                     |              |              |               |          |
|             | 143   |                    |  |  |                   |                                     |              |              |               |          |
|             | 144   |                    |  |  |                   |                                     |              | L            |               |          |
|             | 145   |                    | _  | <u> </u>   | $ldsymbol{f eta}$ | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>     | lacksquare   | lacksquare    | <u> </u> |
|             | 146   | _                  | <u> </u>   | <u> </u>   | <u> </u>          |                                     |              | <del> </del> | <u> </u>      | -        |
| <u> </u>    | 147<br>148  | $\vdash$           | -  | -  | -                 | $\vdash$                            | _            | -            |               | -        |
|             | 149   | -                  |  | $\vdash$   | $\vdash$          | $\vdash$                            | $\vdash$     | ┝            | <del> -</del> | -        |
| $\vdash$    | 150   |                    |  | -  | -                 | $\vdash$                            | $\vdash$     | $\vdash$     | $\vdash$      |          |
| L           | , .,,,,   |                    |  |  |                   |                                     | Щ_           |              |               | لــــا   |